

What is claimed is:

1. A data recording/reproduction apparatus provided with a plurality of input/output means for inputting and outputting data including video data and audio data and adapted to record data including video data and audio data input through said input/output means on a plurality of pieces of recording medium non-linearly accessible in allocated time slots and reproduce and output through said input/output means any of the data recorded on said recording medium including video data and audio data, said apparatus comprising:

a recording/reproduction means for recording material data input through said input/output means on said recording medium and reproducing and outputting through said input/output means any of said material data from said recording medium;

a first editing means for generating a first piece of editing information on the selection of editing points including a starting point and an ending point of a predetermined storage area storing a first material data and a starting point and an ending point of a predetermined storage area storing a second material data to be inserted in said first material data and the actual insertion of said second material data in said first material data;

a video effect processing means for processing the video data in the vicinity of each of said editing point for predetermined specific video effects;

a video-effect-processed data extracting means for extracting the data

processed for the video effects by said video effect processing means;

a recording control means for controlling said recording/reproduction means so as to record said video-effect-processed data extracted by said video-effect-processed data extracting means on said recording medium;

a second editing means for inserting said video-effect-processed data recorded by said recording/reproduction means in said first material data and generating a second piece of editing information for inserting said second material data as modified by the insertion of said video-effect-processed data in said first material data;

a virtual file generating means for generating a first virtual file describing the recording area of said first material data on said recording medium on the basis of the first piece of editing information generated by said first editing means, a second virtual file describing the recording area of said second material data on said recording medium on the basis of the second piece of editing information generated by said second piece of editing information and a third virtual file describing the recording area of said video-effect-processed data on said recording medium; and

a reproduction control means for control said recording/reproduction means so as to reproduce the first material data, the second material data and the video-effect-processed data recorded on said recording medium on the basis of the first virtual file, the second virtual file and the third virtual file

generated by said virtual file generating means.

2. The data recording/reproduction apparatus according to claim 1, wherein the non-linearly accessible recording medium comprises a plurality of hard discs.

3. A data recording/reproduction method adapted to use a plurality of input/output means for inputting and outputting data including video data and audio data so as to record data including video data and audio data input through said input/output means on a plurality of pieces of recording medium non-linearly accessible in allocated time slots and reproduce and output through said input/output means any of the data recorded on said recording medium including video data and audio data, said method comprising steps of:

selecting editing points including a starting point and an ending point of a predetermined storage area storing a first material data and a starting point and an ending point of a predetermined storage area storing a second material data to be inserted in said first material data;

processing the video data in the vicinity of each of said editing point for predetermined specific video effects;

extracting the video-effect-processed data processed for the video effects;

recording said extracted video-effect-processed data extracted on said recording medium;

generating a first virtual file describing the recording area of said first material data on said recording medium, a second virtual file describing the recording area of said second material data on said recording medium and a third virtual file describing the recording area of said video-effect-processed data on said recording medium; and

reproducing the first material data, the second material data and the video-effect-processed data recorded on said recording medium on the basis of the first virtual file, the second virtual file and the third virtual file generated by said virtual file generating means.

4. The data recording/reproduction method according to claim 3, wherein the non-linearly accessible recording medium comprises a plurality of hard discs.